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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,816	12/24/2003	Hirotomo Sai	58799-101	1724
McDermott, Will & Emery 600 13th Street, N.W.			EXAMINER	
			KOSTAK, VICTOR R	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			2622	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
, 3 MO	NTHS	04/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/743,816	SAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Victor R. Kostak	2622				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEL	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-8 and 11-16 is/are allowed. 6) Claim(s) 9,10 and 17-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 12/24/03 is/are: a) ac Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	ccepted or b) objected to by the drawing(s) be held in abeyance. See on is required if the drawing(s) is object.	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/9/06; 12/24/03.	4) Interview Summary (Paper No(s)/Mail Dal 5) Notice of Informal Pa 6) Other:	te				

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. Note MPEP 606.01.

- 2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "1" "5" has been used to designate respective elements in the Fig. 1 embodiment that are different from elements "1" "5" in the embodiment shown in Fig. 11. Also, the elements that are the same in the two embodiments enclosed by the dotted lines are numbered differently.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17, 18 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "long" in claims 17 and 20 is a relative term which renders the claims indefinite. The term "long" is not defined by the claims, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. What one skilled artisan considers being a "long" sample can differ from any other skilled artisan.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Or (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu.

The digital video enhancement system of Liu (noting particularly Fig. 8) carries out the steps of generating a first digital contour-corrected signal using sharpening function stage 514; and a second generating a second digital video signal that suppresses undershoot (stage 522) in

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the contour portion of the video signal enhanced by the first stage. The output of the second video signal is selected (i.e. output at a specific time relative to other system processing times, or activated when such contour requires reduction) during what one of ordinary skill in the art can designate as a contour portion period. The first signal is selectively output, that is, specifically prior to the contour portion period (i.e. the period designated as such, during the second stage processing period).

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As for claim 10, the contour enhancement can be applied to an imaging module (col. 1 lines 41-43).

6. Claim 19 is rejected under 35 U.S.C. 102(e) as being anticipated by Mise et al.

The system of Mise (noting particularly Fig. 6) includes plural interpolation stages 111 and 105, to which an input digital video signal is applied (initially generated by a CCD, noting the first input). Edge detector 450 can be considered as part of either of the interpolation stages by virtue of the specifically associated operational relationships, and weighting stage 12 selects the interpolation contribution of respective stages 111 and 105, resulting in an enhanced edge.

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Claims 1-8, 11-18 and 20 appear allowable over the prior art.

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Victor R. Kostak whose telephone number is (571) 272-7348.

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The examiner can normally be reached on Monday - Friday from 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David W. Ometz can be reached on (571) 272-7593. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria, Virginia 22313-1450

Or faxed to:

(571) 273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (703) 308-HELP.

Victor R. Kostak Primary Examiner Art Unit 2622

VRK